

CLAIMS

1. A torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism comprising:
 - a rotary input member operable in a forward and reverse direction;
 - 5 a linear output member; torque-to-thrust means disposed between said rotary input member and said linear output member for transmitting rotary motion of said input member to linear motion of said output member;
 - a stationary component;
- 10 a mechanical diode disposed adjacent said stationary component and being responsive to said rotary input member to permit free rotation in a first direction;
 - a friction means disposed between said stationary component and a member of said mechanical diode to hold said mechanical diode member stationary to inhibit the reverse rotation of said rotary input member in a second direction until a predetermined rotary force is present at said rotary input member in said second direction.
- 15 2. The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising:
 - said mechanical diode having an inner race and an outer race; and
 - said friction means comprising a plate member disposed between
- 5 said outer race and said stationary component.
3. The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising:
 - said mechanical diode having an inner race and an outer race;

said friction means comprising a plate member disposed between
5 said inner race and said stationary component.

4. The torque-to-thrust apparatus including a one-way friction
torque-transmitting mechanism defined in Claim 1 further comprising:

said friction means comprising a plate member secured to said
stationary component adjacent said member of said mechanical diode.

5. The torque-to-thrust apparatus including a one-way friction
torque-transmitting mechanism defined in Claim 1 further comprising:

said torque to thrust means comprising a hydraulic force
generating means including a master cylinder and a slave cylinder.

6. The torque-to-thrust apparatus including a one-way friction
torque-transmitting mechanism defined in Claim 1 further comprising

said friction means having a holding force proportional to a thrust
force in said torque to thrust means.

7. The torque-to-thrust apparatus including a one-way friction
torque-transmitting mechanism defined in Claim 1 further comprising:

said friction means having a substantially constant holding force.